

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
29 July 2004 (29.07.2004)

PCT

(10) International Publication Number
WO 2004/063707 A2

(51) International Patent Classification⁷:

G01N

(21) International Application Number:

PCT/US2004/000338

(22) International Filing Date: 8 January 2004 (08.01.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/438,918 9 January 2003 (09.01.2003) US

(71) Applicant (for all designated States except US): ALBERT EINSTEIN COLLEGE OF MEDICINE OF YESHIVA UNIVERSITY [US/US]; 1300 Morris Park Avenue, Bronx, NY 10461 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BURNS, Edward, R. [US/US]; 70-45 173rd Street, Fresh Meadows, NY 11365 (US). MCKITTRICK, John, C. [US/US]; 229 Byram Lake Road, Mount Kisco, NY 10549 (US). WU, Ding, Wen [US/US]; 3450 Wayne Avenue, Apt. 27N, Bronx, NY 10467 (US).

(74) Agents: ARNOLD, Craig, J. et al.; Amster, Rothstein & Ebenstein LLP, 90 Park Avenue, New York, NY 10016 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/063707 A2

(54) Title: AGGLUTINATION TESTS FOR DETECTION OF MICROORGANISMS

(57) Abstract: Methods of detecting a microorganism in an aqueous solution or suspension, where the aqueous solution or suspension does not comprise precultured microorganisms, are provided. The methods utilize microspheres coated with antibodies or antibody fragments, and assessment of agglutination. Methods of detecting at least one of n microorganism species in an aqueous solution or suspension are also provided. The methods utilize antibody coated microspheres coated with n distinct antibodies or antibody fragments and assessment of agglutination.